

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Coleman, et al.

Application Serial No.: To be assigned

Art Unit: To be assigned

Filed: January 20, 2004

Examiner: To be assigned

For: Human Glycosylation Enzymes

Atty. Docket No.: PF505D2

INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 C.F.R. § 1.56

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

S I R:

In accordance with the duty of disclosure imposed by 37 C.F.R. § 1.56 to inform the Patent and Trademark Office of all references coming to the attention of each individual associated with the filing or prosecution of the subject application, which are or may be material to the patentability of a claim of the subject application, Attorneys for Applicants hereby direct the Examiner's attention to references AA-GC listed on the attached Form PTO/SB/08.

Copies of references AA-GC were submitted by Applicants or cited by the Examiner in connection with United States Patent Application Serial No. 09/984,205, filed October 29, 2001, to which the instant application claims priority under 35 U.S.C. § 120. Pursuant to 37 C.F.R. § 1.98(d), the Examiner is respectfully directed to the file of United States Patent Application Serial No. 09/984,205 for copies of references AA-GC.

Identification of the listed references is not to be construed an admission of any individual associated with the filing or prosecution of the subject application that such references are available as "prior art" against the subject application. Furthermore, Applicants do not waive any rights to appropriate action to establish patentability over any of the listed documents should they be applied as references against the claims of the subject application.

The above information is presented so that the Patent and Trademark Office can determine any materiality thereof to the claimed invention. See 37 CFR 1.104(a)

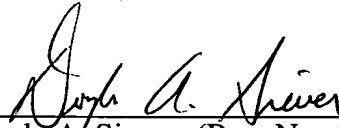
concerning the PTO duty to consider and use any such information. It is respectfully requested that the information be considered during the prosecution of this application.

Applicants respectfully request that the Examiner review the listed references and that the references be made of record in the file history of the application.

Pursuant to 37 C.F.R. § 1.97(b), since this information disclosure statement is being filed concurrently with the filing of the instant application, no fee is due in connection herewith. However, should the Patent Office determine otherwise, please charge the required fee to Human Genome Sciences, Inc., deposit account no. 08-3425.

Respectfully submitted,

Date: January 20, 2004



Doyle A. Siever (Reg. No. 47,088)
Agent for Applicants

Human Genome Sciences, Inc.
9410 Key West Avenue
Rockville, Maryland 20850
Telephone: (240) 314-4400 x3595

MJH/DAS/mr

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Substitute for form 1449A/PTO				Complete If Known		
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (use as many sheets as necessary)				Application Number		To be Assigned
				Filing Date		January 19, 2004
				First Named Inventor		Coleman et al.
				Group Art Unit		To be Assigned
				Examiner Name		To be Assigned
Sheet	1	of	11	Attorney Docket Number		PF505D2

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No. ¹	U.S. Patent Document Number Kind Code ² (if known)		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	5,593,887		WONG et al.	01-14-97	

FOREIGN PATENT DOCUMENTS							
Examiner Initials	Cite No. ¹	Foreign Patent Document Office ³ Number ⁴ Kind Code ⁵ (if known)		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	AB		WO 00/05378	STICHTING DIENST LANDBOUWKENDIG ONDERZOEK	02-03-00	Sheets 26 and 30 of Figures	

OTHER REFERENCES - NON PATENT LITERATURE DOCUMENTS				
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	AC	EMBL/GenBank/ DDBJ database Accession No. AJ000855 (June 1, 1998).		
	AD	GANGULI et al., <i>Journal of Bacteriology</i> , 176(15):4583-4589 (1994).		
	AE	GILBERT et al., <i>The Journal of Biological Chemistry</i> , 275(6):3896-3906 (2000).		
	AF	International Search Report mailed on August 21, 2000, in corresponding International Application No. PCT/US00/05325.		
	AG	WEIKERT et al., <i>Nature Biotechnology</i> , 17:1116-1121 (1999).		

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	AH	6,030,824		Hillman et al.	02-29-2000	
	AI	5,962,302		Hillman et al.	10-05-1999	

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	AJ	Munster, A-K., et al., "Mammalian cytidine 5'-monophosphate N-acetylneuraminic acid synthetase: A nuclear protein with evolutionarily conserved structural motifs", Proc. Natl. Acad. Sci. USA, 95:9140-9145 (August 1998).	
	AK	Redenbach, M., et al., "A set of ordered cosmid and a detailed genetic and physical map for the 8 Mb Streptomyces coelicolor A3(2) chromosome", Mol. Microbiol., 21(1):77-96 (July 1996).	
	AL	Genbank Accession No. AI916625 (12/16/1999)	
	AM	Genbank Accession No. AI635718 (12/16/1999)	
	AN	Genbank Accession No. AI550577 (03/15/2000)	
	AO	Genbank Accession No. AI521193 (04/13/1999)	
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	AR	Genbank Accession No. AI079177 (09/24/1998)	
	AS	Genbank Accession No. AA226858 (02/24/1997)	
	AT	Genbank Accession No. AA162738 (12/17/1996)	
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	AV	Genbank Accession No. W78156 (10/17/1996)	
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	AY	Genbank Accession No. H03606 (06/20/1995)	
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	CC	Genbank Accession No. AA947519 (07/23/1998)	
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	CF	Genbank Accession No. AA831223 (03/25/1998)	
	CG	Genbank Accession No. AA621146 (03/02/1998)	
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	CJ	Genbank Accession No. AA064652 (12/23/1997)	
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	CY	Genbank Accession No. AA057865 (05/11/1997)	
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	DU	Genbank Accession No. AA086111 (10/23/1996)	
	DV	Genbank Accession No. AA307074 (04/18/1997)	
	DW	Genbank Accession No. AA839024 (02/27/1998)	
	DX	Genbank Accession No. AA230788 (02/26/1997)	
	DY	Genbank Accession No. C84288 (03/26/1999)	
	DZ	Genbank Accession No. AA604000 (10/28/1997)	

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				Application Number	To be Assigned
				Filing Date	January 19, 2004
				First Named Inventor	Coleman et al.
				Group Art Unit	To be Assigned
				Examiner Name	To be Assigned
Sheet	8	of	11	Attorney Docket Number	PF505D2

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No. ¹	U.S. Patent Document Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

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	EA	Genbank Accession No. W85985 (02/02/1997)	
	EB	Genbank Accession No. AA032715 (08/22/1996)	
	EC	Genbank Accession No. AI701120 (12/18/1999)	
	ED	Genbank Accession No. AA981884 (05/27/1998)	
	EE	Genbank Accession No. W59582 (06/06/1996)	
	EF	Genbank Accession No. AA670706 (11/25/1997)	
	EG	Genbank Accession No. AI624434 (12/14/1999)	
	EH	Genbank Accession No. T77310 (03/06/1995)	
	EI	Genbank Accession No. AA081645 (10/21/1996)	
	EJ	Genbank Accession No. W65159 (06/10/1996)	
	EK	Genbank Accession No. T99986 (03/31/1995)	
	EL	Genbank Accession No. AA636878 (12/14/1995)	
	EM	Genbank Accession No. H68573 (10/27/1995)	
	EN	Genbank Accession No. AA162903 (02/11/1997)	
	EO	Genbank Accession No. AI879065(08/23/1999)	
	EP	Genbank Accession No. AA930983 (04/23/1998)	
	EQ	Genbank Accession No. R74907 (07/25/1996)	
	ER	Genbank Accession No. AA792227 (02/09/1998)	

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	ES	Genbank Accession No. AI888696 (03/08/2000)						
	ET	Genbank Accession No. AA417239 (10/16/1997)						
	EU	Genbank Accession No. AA384961 (04/21/1997)						
	EV	Genbank Accession No. C84527 (03/26/1999)						
	EW	Genbank Accession No. AI739429 (12/21/1999)						
	EX	Genbank Accession No. AA415331 (10/16/1997)						
	EY	Genbank Accession No. R86540 (08/17/1995)						
	EZ	Genbank Accession No. AI664161 (05/10/1999)						
	FA	Genbank Accession No. AA699593 (12/19/1997)						
	FB	Genbank Accession No. AA007637 (05/09/1997)						
	FC	Genbank Accession No. AI470741 (03/09/1999)						
	FD	Genbank Accession No. AA203188 (01/24/1997)						
	FE	Genbank Accession No. AI340362 (02/13/1999)						
	FF	Genbank Accession No. AA711207 (12/24/1997)						
	FG	Genbank Accession No. AA000619 (07/18/1996)						
	FH	Genbank Accession No. A778902 (02/05/1998)						
	FI	Genbank Accession No. AI117197 (09/02/1998)						
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	FJ	Genbank Accession No. AA475777 (06/18/1997)	
	FK	Genbank Accession No. W85750 (02/02/1997)	
	FL	Genbank Accession No. AA269909 (03/26/1997)	
	FM	Genbank Accession No. AA691227 (12/16/1997)	
	FN	Genbank Accession No. AI829102 (12/21/1999)	
	FO	Genbank Accession No. AA016640 (08/02/1996)	
	FP	Genbank Accession No. AA002459 (07/19/1996)	
	FQ	Genbank Accession No. AI127768 (10/27/1998)	
	FR	Genbank Accession No. AA119079 (02/17/1997)	
	FS	SAKAKIBARA ET AL., Constructions and expression of human aldolase A and B expression plasmids in Escherichia coli host, Biochimica et Biophysica Acta, (1989), pages 334-342	
	FT	LUBINEAU ET AL., Combined Chemical and Enzymatic Synthesis of the Sialylated Non Reducing Terminal Sequence of GM _{1b} Glycolylated Ganglioside, a Potential Human Tumor Marker, Bioorganic & Medicinal Chemistry, (1994), volume 2, no. 7, pages 669-674.	
	FU	European Search Report dated July 11, 2002.	
	FV	European Search Report dated June 10, 2002.	
	FW	XP-002199518; Accession No. 088719; Database SWALL 'Online!,' Nov. 1, 1998.	
	FX	XP-002199519; Accession No. AJ006215; Database EMBL 'Online!,' August 7, 1998.	

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